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AMENDMENTS

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1. (Currently Amended) A method of reading an addressable array of biopolymers on a substrate which array has been exposed to a sample, comprising:
  - (a) detecting signals from the exposed array to obtain a signal image of the array;
  - (b) establishing, based on the detected signals, a shape of each region in one or more sets of multiple regions on the array signal image, and displaying the established shapes, wherein the shape of regions of a set include an identified shape of any of an array feature, a background region, and an identified inlier or outlier region within an array feature or background region;
  - (c) processing each region of each set according to a region processing routine; and
  - (d) saving the displayed shapes in a first file and the processed results in a second file.
2. (Currently Amended) **[[A]]** The method according to claim 1 wherein the biopolymers are polynucleotides.
3. (Currently Amended) **[[A]]** The method according to claim 2 wherein the biopolymers are DNA.
4. (Currently Amended) **[[A]]** The method according to claim 1 wherein the first file is smaller than the second file.
5. (Currently Amended) **[[A]]** The method according to claim 1 additionally comprising, subsequent to processing of each region, retrieving the saved shapes of the established regions and displaying images of them.
6. (Currently Amended) **[[A]]** The method according to claim 1 additionally comprising, saving the array signal image, and subsequent to processing each region, retrieving the array signal image and saved shapes of the established regions and displaying overlaid images of them.